

Achieve Optimal Analytical Accuracy

New Scott™ brand compact, low internal volume regulators with SilcoNert® 2000-treated surfaces



MADE IN USA
 Regulator is shown
 at actual size.

Offered exclusively from Air Liquide, these ultra-compact single and two-stage regulators set new industry standards when working with reactive gas mixtures containing low concentrations of ammonia, dimethyl sulfide, hydrogen sulfide, methyl mercaptan, mercury, nitric oxides and sulfur dioxide in a broad range of applications. Processes are more precisely controlled, sample cycle times are reduced, instruments can be calibrated more accurately—yielding significant savings in time, labor and materials.

Applications Include:

- Automotive exhaust testing
- Beverage-grade CO₂ testing (ISBT testing and sampling)
- Environmental sampling
- Mercury analysis
- Moisture control environments
- Natural gas testing
- NO_x monitoring
- Odorant testing
- SO_x monitoring
- Stack testing
- Sulfurs in petroleum streams

Benefits and Features

- SilcoNert treatment eliminates adsorption of reactive gases for unsurpassed analytical accuracy
- A “must use” when analyzing for parts-per-billion levels of organo-sulfur compounds
- Low internal dead volume shortens sampling cycle and purge times—saves gas too
- Treated, convoluted metal diaphragm further eliminates possibility of adsorption
- Extremely compact and lightweight design permits easier handling
- Complementary treated fittings and valves available for adsorption-free gas handling
- Regulators are in stock for quick shipping

Specifications

Inlet Pressure: 3000 psig
(207 bar) maximum

Operating Temperature Range:
-40°F to 140°F (-40°C to 60°C)

Flow Coefficient: CV = 0.06

Regulator Body Internal Volume:

Single-Stage: 3 cc

Two-Stage: 8.6 cc

Supply Pressure Effect:

Single-Stage: 2 psi per 100 psi
(0.14 bar per 7 bar)

Two-Stage: 0.4 psi per 100 psi
(0.03 bar per 7 bar)

Regulator Inlet Port: 1/4" NPT Female

Inlet Connection: Specify CGA

Outlet Connection: 1/4" NPT Female and
all other inlet/outlet configurations

Gauge Ports: 1/8" NPT Female

Inlet Filters: 10 micron

Gauge Size: 1.5" (41 mm) face

Weight:

Single-Stage: 1.3 lbs. (0.6 kg)

Two-Stage: 2.6 lbs. (1.2 kg)

Materials of Construction

**Body, Diaphragm, Valve Stem,
Seat Retainer, Spring, Gauge,
Filter:** Type 316L Stainless Steel

Seats: PCTFE

Seals: Teflon®

Bonnet: Anodized black aluminum

*Please note: all wetted components (except gauges)
have the SilcoNert 2000 coating.*



316L Stainless Steel Surfaces Inerted with Silicon

A patented SilcoNert® 2000 treatment applied to all internal surfaces—including a convoluted diaphragm—improves the inert characteristics of 316L Stainless Steel. Surface adsorption of reactive compounds is eliminated completely, so analytical accuracy and subsequent reliability of analysis data is therefore greatly improved.



Low Internal Volume, Single and Two-Stage

Ultra-compact design of both models eliminates circuitous flow paths found inside other regulators. The resulting low internal volume limits surface contact time and dead space—allowing for faster sample cycle times as well as less wasted gas when purging. Their extremely small size also makes them much easier to handle than conventional regulators.

Teflon is a registered trademark of E. I. du Pont de Nemours and Company

SilcoNert is a registered trademark of SilcoTek® Corporation

Model SN206, SN216	Delivery Pressure Range		Delivery Pressure Gauge (dual scale)		Cylinder Pressure Gauge (dual scale)	
	psig	bar	psig	bar	psig	bar
Single-Stage						
Q1-SN206A-(*)	5–30	0.34–2.1	0–60	0–4	0–3000	0–207
Q1-SN206B-(*)	10–75	0.69–5.2	0–100	0–7	0–3000	0–207
Q1-SN206C-(*)	15–150	1–10.3	0–200	0–14	0–3000	0–207
Two-Stage						
Q1-SN216A-(*)	5–30	0.34–2.1	0–60	0–4	0–3000	0–207
Q1-SN216B-(*)	10–75	0.69–5.2	0–100	0–7	0–3000	0–207
Q1-SN216C-(*)	15–150	1–10.3	0–200	0–14	0–3000	0–207

*Specify CGA. Other cylinder connections are available—please contact your Air Liquide representative.

Options: A variety of SilcoNert 2000-treated fittings and valves are also available.

Diaphragm Valve: QSN62S4MFL

Compression Fittings:

- QSN62S4MFL 1/4" NPT Male x 1/4" Comp. Male Connector
- QSN62S4MFL 1/4" NPT Male x 1/8" Comp. Male Connector
- QSN62S4MFL 1/8" Comp. Union
- QSN62S4MFL 1/4" Comp. Union
- QSN62S4MFL 1/4" x 1/8" Comp. Reducing Union



316L Stainless Steel Tubing—straight, 6' length

- QSN62S4MFL 1/8" O.D. x 0.028" Wall
- QSN62S4MFL 1/4" O.D. x 0.035" Wall



Founded in 1902, Air Liquide is the world leader in gases for industry, health and the environment, providing innovative solutions for the manufacture of everyday products and for the protection of life.

NOTE: This brochure is intended for general information purposes only and is not intended as a representation or warranty of any kind, or as a statement of any terms or condition of sale. The information herein is believed to be correct, but is not warranted for correctness or completeness or for applicability to any particular customer or situation.

MOLECULES THAT MATTER and Scott are trademarks of the Air Liquide Group.
©2012 Air Liquide America Specialty Gases LLC



Air Liquide America Specialty Gases LLC
6141 Easton Road
Box 310
Plumsteadville, PA 18949

Phone: 800.654.2737
Fax: 732.271.1630
Email: ALASG.Equipment@airliquide.com
www.ALspecialtygases.com

All rights reserved 10/12-TGI 1M